

2631

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: K. Ruotsalainen et al

Attorney Docket No.: 944-5.7

Application No.: 10/092,358

Group No.: 2631

Filed: March 5, 2002

Examiner: To be assigned

For: METHOD AND APPARATUS FOR MODULATION USING AN AT LEAST FOUR-DIMENSIONAL SIGNAL CONSTELLATION

Assistant Commissioner for Patents
Washington, DC 20231

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INFORMATION DISCLOSURE STATEMENT

Sir:

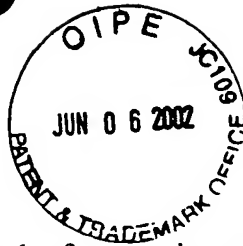
Applicant submits herewith references of which they are aware, which they believe may be material to the examination of this application and in respect of which they may have a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to:
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A PTO-1449 with cited references is enclosed.

Respectfully submitted,

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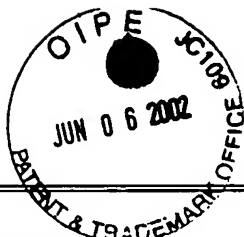
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SERIAL NO.
10/092,358

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APPLICANTS: K. Ruotsalainen, et al

FILING DATE:
March 6, 2002

ART UNIT: 2631

UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR/ASSIGNEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	INVENTOR/ASSIGNEE	CLASS	SUBCLASS	TRANSLATION YES/NO

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		<i>Nonlinear Rotationally Invariant Trellis Codes for Multidimensional Modulation</i> ; Tingfang Ji, Ping An, Member, IEEE, and Subhash C. Kwatra, Senior Member, IEEE; IEEE Transactions on Communications, Vol. 45, No. 10; October 1997.
		<i>Applicability of four-dimensional modulations to digital satellites: A simulation study</i> ; Giorgio Taricco, Ezio Biglieri, Valentino Castellani, Dipartimento di Elettronica, Politecnico, Corso Duca degli Abruzzi 24, I-10129 Torino, Italy; pg. 28-32.
		<i>Multidimensional Constellations-Part I: Introduction, Figures of Merit, and Generalized Cross Constellations</i> ; G. David Forney, Jr., Fellow, IEEE, and Lee-Fang Wei; IEEE Journal on Selected Areas in Communications, Vol. 7, No. 6; August 1989, pg. 877-892.

Examiner

Date: